Tire Science and Technology Keyword Index to Volume 36 2008

Abaqus
  Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
accelerated aging
  Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
ASTM
  ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)
belt composite
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
belt parameters
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
belt stresses
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
bump and curb impact
  Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
characterization
  Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
contact
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
contact area
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
contact force
  Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226 (2008)
contact pressure
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)

Tire Science and Technology Keyword Index to Volume 36 2008

Abaqus
  Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
accelerated aging
  Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
ASTM
  ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)
belt composite
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
belt parameters
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
belt stresses
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
bump and curb impact
  Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
characterization
  Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
contact
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
contact area
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
contact force
  Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226 (2008)
contact pressure
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)

damping
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
discrete model
Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
DLO effect
Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
drum
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
durability
Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
elastomer
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
energy dissipation
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
evolution strategy
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
experimental
Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
explicit
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
explicit finite element simulations
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
FEA analysis
From Tread Design to Tread Stiffness Matrices (F. Braghin, F. Cheli, and R. Sangalli), 227–241 (2008)
finite element
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)

finite element method
Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
flat versus curved surface
ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)
flat vs curved surface
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures (L. Spadone and J. Bokar), 129–145 (2008)
friction energy
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
groove wander
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
handling
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
heat flux
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)
heat transfer coefficients
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)
highway speed equivalency
ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)
hyperelastic
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
hysteresis
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
impact harshness
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
implicit
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)

indoor wear
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
interply shear
Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
ISO 18164
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
kinetic moment
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
linear viscoelasticity
Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226 (2008)
LT- and P-metric tire testing
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures (L. Spadone and J. Bokar), 129–145 (2008)
measurement
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
measuring instruments
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)
noise
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
nonlinear stiffness
From Tread Design to Tread Stiffness Matrices (F. Braghin, F. Cheli, and R. Sangalli), 227–241 (2008)
oxidative aging
Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)
performance prediction
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
pothole crossing
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
PRAT
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
roadwheel
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures

(L. Spadone and J. Bokar), 129–145 (2008)
rolling
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
rolling contact
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
rolling resistance
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
rolling tire vibrations
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
rubber
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
rubber friction
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
statistical modeling
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures (L. Spadone and J. Bokar), 129–145 (2008)
steady-state FEM
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
suspension and chassis
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
thermodynamics
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)
thin films
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)
tire
Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
tire durability
Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)

tire forces and moments
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
tire mechanics
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
tire modeling
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
tire ride comfort
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
tire temperature
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures (L. Spadone and J. Bokar), 129–145 (2008)
tire testing
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
tires
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)
traction
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
transient response
Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
tread block
Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226 (2008)
tread design
From Tread Design to Tread Stiffness Matrices (F. Braghin, F. Cheli, and R. Sangalli), 227–241 (2008)
tread pattern
Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)
tread wear
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
truck tire temperatures
ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)
ultrasonic analysis
Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid

Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)
virtual wear
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
viscoelastic spring
Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226(2008)

Tire Science and Technology Author Index to Volume 36 2008

A

Assaad, M. C.:
Thin-Film Heat Flux Sensor for Measuring the Film Coefficient of Rubber Components of a Rolling Tire (M. C. Assaad, B. Kimble, Y.-M. Huang, R. Burgan, G. C. Fralick, J. D. Wrbanek, and J. M. Gonzalez), 275–289 (2008)

B

Baldi, Antonio: see Pau, Massimiliano, 43–62 (2008)
Barillier, A.: see Hublau, V., 146–155 (2008)
Bokar, J.: see Spadone, L., 129–145 (2008)
Braghin, F.:
From Tread Design to Tread Stiffness Matrices (F. Braghin, F. Cheli, and R. Sangalli), 227–241 (2008)
Burgan, R.: see Assaad, M. C., 275–289 (2008)

C

Cheli, F.: see Braghin, F., 227–241 (2008)
Conard, B.: see Song, G., 108–128 (2008)
Cron, S. M.: see McGinty, R. D., 244–274 (2008)

F

Fischer, M.: see Mundl, R., 192–210 (2008)
Fralick, G. C.: see Assaad, M. C., 275–289 (2008)

G

Gonzalez, J. M.: see Assaad, M. C., 275–289 (2008)
Graham, W. R.: see Liu, F., 211–226 (2008)

H

Huang, Y.-M.: see Assaad, M. C., 275–289 (2008)
Hublau, V.:
The Equations of the Rolling Resistance of a Tire Rolling on a Drum (V. Hublau and A. Barillier), 146–155 (2008)

I

Iyengar, S. K. R.: see Song, G., 108–128 (2008)

K

Kaliske, M.: see Nasdala, L., 63–79 (2008)
Kennedy, R. H.: see Smith, K. R., 290–303 (2008)
Kerchman, V.:
  Tire-Suspension-Chassis Dynamics in Rolling over Obstacles for Ride and Harshness Analysis (V. Kerchman), 158–191 (2008)
Kimble, B.: see Assaad, M. C., 275–289 (2008)
Knisley, S. B.: see Smith, K. R., 290–303 (2008)

L

Leban, Bruno: see Pau, Massimiliano, 43–62 (2008)
Liu, F.:
  Modeling of Tread Block Contact Mechanics Using Linear Viscoelastic Theory (F. Liu, M. P. F. Sutcliffe, and W. R. Graham), 211–226 (2008)

M

McGinty, R. D.:
  Analytical Solution for the Stresses Arising in +/− Angle Ply Belts of Radial Tires (R. D. McGinty, T. B. Rhyne, and S. M. Cron), 244–274 (2008)
Mundl, R.:
  Virtual Pattern Optimization Based on Performance Prediction Tools (R. Mundl, M. Fischer, W. Strache, K. Wiese, B. Wies, and K. H. Zinken), 192–210 (2008)

N

Nasdala, L.:
  Lifetime Prediction of Tires with Regard to Oxidative Aging (L. Nasdala, Y. Wei, H. Rothert, and M. Kaliske), 63–79 (2008)

P

Pau, Massimiliano:
  Ultrasonic Measurements of Contact Area and Pressure Distribution of a Pneumatic Tire on a Rigid Surface (Massimiliano Pau, Bruno Leban, and Antonio Baldi), 43–62 (2008)

R

Rhyne, T. B.: see McGinty, R. D., 244–274 (2008)
Rothert, H.: see Nasdala, L., 63–79 (2008)
Ruip, T. M.:
  ASTM Radial Medium Truck Tire Operating Temperatures—Curved versus Flat Surfaces (T. M. Ruip), 82–107 (2008)

S

Salaani, Mohamed Kamel:
Analytical Tire Forces and Moments with Physical Parameters (Mohamed Kamel Salaani), 3–42 (2008)
Sangalli, R.: see Braghin, F., 227–241 (2008)
Smith, K. R.:
Prediction of Tire Profile Wear by Steady-State FEM (K. R. Smith, R. H. Kennedy, and S. B. Knisley), 290–303 (2008)
Song, G.:
Damping Characterization Using Hysteresis on Static Nonrolling and Dynamic Rolling Behavior of Farm Tires (G. Song, B. Conard, and S. K. R. Iyengar), 108–128 (2008)
Spadone, L.:
Flat versus Curved Contact Surfaces Effect on Consumer P-Metric and LT Tire Operating Temperatures (L. Spadone and J. Bokar), 129–145 (2008)
Strache, W.: see Mundl, R., 192–210 (2008)
Sutcliffe, M. P. F.: see Liu, F., 211–226 (2008)

W

Wei, Y.: see Nasdala, L., 63–79 (2008)
Wies, B.: see Mundl, R., 192–210 (2008)
Wiese, K.: see Mundl, R., 192–210 (2008)
Wrbanek, J. D.: see Assaad, M. C., 275–289 (2008)

Z

Zinken, K. H.: see Mundl, R., 192–210(2008)